

Please type a plus sign (+) inside this box → +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002 OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

4

of

6

### Complete If Known

Application Number	10/700,227
Filing Date	November 3, 2003
First Named Inventor	Steven R. Kleiman et al.
Group Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	II2056-0143

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
CP	73	GIBSON, GARTH A., ET AL., <i>Coding Techniques for Handling Failures in Large Disk Arrays</i> , Technical Report UCB/CSD 88/477, Computer Science Division, University of California, (July, 1988.)	
CP	74	GIBSON, GARTH A., ET AL., <i>Failure Correction Techniques for Large Disk Arrays</i> , In Proceedings Architectural Support for Programming Languages and Operating Systems, Boston, Apr. 1989, pp 123-132	
CP	75	GIBSON, GARTH A., ET AL., <i>Strategic Directions in Storage I/O Issues in Large-Scale Computing</i> , ACM Computing Survey, 28(4):779-93, December 1996	
CP	76	GOLDICK, JONATHAN S., ET AL., <i>Multi-resident AFS: An Adventure in Mass Storage</i> , In Proceedings of the 1995 USENIX Technical Conference, pages 47-58, January 1995	
CP	77	GRAHAM, SUSAN L., ET AL., <i>Massive Information Storage, Management, and Use</i> , (NSF Institutional Infrastructure Proposal), Technical Report No. UCB/CSD 89/493, January 1989	
CP	78	GRAY, JIM ET AL., <i>Parity striping of disc arrays: Low-Cost Reliable Storage with Acceptable Throughput</i> . In Proceedings of the 16th Very Large Data Bases Conference, pages 148-161, Brisbane, Australia, 1990	
CP	79	GRIMES, DW MARTINEZ, <i>Two Dimensional Parity Error Correction Procedure</i> , IBM Technical Disclosure Bulletin 2686-2689, October 1982	
CP	80	GRIMES, DW MARTINEZ, <i>Vertical Parity Generator for Two Dimensional Parity</i> , IBM Technical Disclosure Bulletin 2682-2685, October 1982	
CP	81	HELLERSTEIN, LISA, ET AL., <i>Coding Techniques for Handling Failures in Large Disk Arrays</i> . In Algorithmica Vol. 2, Nr. 3, 182-208 (1994)	
CP	82	HUGHES, JAMES, ET AL., <i>High Performance RAID</i> , Tenth NASA Goddard Conference on Mass Storage Systems and Technologies and Nineteenth IEEE Symposium on Mass Storage Systems, Adelphi, Maryland, USA, April 2002	
CP	83	JOHNSON, THEODORE, ET AL, <i>Tape Group Parity Protection</i> , IEEE Symposium on Mass Storage, pp. 72-79, March 1999	
CP	84	KATZ, RANDY H. ET AL., <i>Disk System Architectures for High Performance Computing</i> , undated, Dec. 1989	
CP	85	KENT, JACK ET AL., <i>Optimizing Shadow Recovery Algorithms</i> , IEEE Transactions on Software Engineering, 14(2):155-168, Feb. 1988.	

Examiner Signature

Chase Rees

Date Considered

1/12/06

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Please type a plus sign (+) inside this box → +

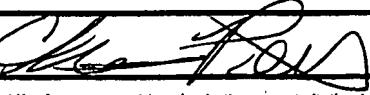
PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10700,227
Sheet	5	Filing Date	November 3, 2003
	of 6	First Named Inventor	Steven R. Kleiman et al.
		Group Art Unit	Not yet assigned
		Examiner Name	Not yet assigned
		Attorney Docket Number	112056-0143

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
CP	99	PATTERSON, DAVID A., ET AL., <i>Introduction to Redundant Arrays of Inexpensive Disks (RAID)</i> . In IEEE Spring 89 COMPCON, San Francisco, IEEE Computer Society Press, February 27 - March 3, 1989, pp. 112-117		
CP	100	STORAGESUITE "Performance Without Compromise: The Virtual Storage Architecture," catalogue, 1997		
CP	101	REDDY, A. L. NARASIMHA, ET AL., <i>An Evaluation of Multiple-Disk I/O Systems</i> , IEEE Transactions on Computers, Vol. 38, No 12, December 1989, pp. 1680 - 1690.		
CP	102	SCHULZE, MARTIN E., <i>Considerations in the Design of a RAID Prototype</i> , Computer Science Division, Department of Electrical Engineering and Computer Sciences, Univ. of CA, Berkley, August 25, 1988		
CP	103	SCHULZE, MARTIN., ET AL., <i>How Reliable is a RAID?</i> , Proceedings of COMPCON, 1989, pp. 118-123		
CP	104	SHIRRIFF, KENNETH W., <i>Sawmill: A Logging File System for a High-Performance RAID Disk Array</i> , CSD-95-862, January 1995		
CP	105	STONEBRAKER, MICHAEL, ET AL., <i>The Design of XPRS</i> , Proceedings of the 14 <sup>th</sup> VLDB Conference, LA, CA (1988)		
CP	106	TANABE, TAKAYA, ET AL., <i>Redundant Optical Storage System Using DVD-RAM Library</i> , IEEE Symposium on Mass Storage, pp. 80-87, March 1999		
CP	107	TEKROM - "About RAID 6", 2004		
CP	108	TWETEN, DAVID, <i>Hiding Mass Storage Under UNIX: NASA's MSS-H Architecture</i> , IEEE Symposium on Mass Storage, pages 140-145, May 1990		
CP	109	WILKES, JOHN, ET AL., <i>The HP AutoRAID hierarchical storage system</i> , ACM Transactions on Computer Systems, February 1996, vol. 14, pp. 108-36		

Examiner Signature		Date Considered	1/12/06
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.